

Storm Data and Unusual Weather Phenomena - May 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	05/15/12 17:45 CST	0		Marine Thunderstorm Wind (MG 34 kt)
	05/15/12 17:45 CST	0		Source: C-MAN Station
Scattered thunderstorms developing during the late afternoon along a cold front which briefly affected portions of the near shore waters of Lake Michigan.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	05/20/12 16:10 CST	0		Marine Thunderstorm Wind (MG 38 kt)
	05/20/12 16:20 CST	0		Source: C-MAN Station
Strong thunderstorms caused measured wind gusts of 37-38 knots for a 10 minute period.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	05/20/12 16:30 CST	0		Marine Thunderstorm Wind (MG 37 kt)
	05/20/12 17:00 CST	0		Source: C-MAN Station
Strong thunderstorms caused measured wind gusts of 37 to 39 knots for a 30 minute period. Strongest measured gust of 39 knots occurred at 500 pm CST. During this 30 minute period, prevailing winds were 26 to 29 knots.				
A cluster of strong thunderstorms moved from northeast Illinois into the near shore waters of Lake Michigan during the late afternoon. The thunderstorms erupted along a cold front moving east across the region.				
PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87]				
	05/28/12 18:02 CST	0		Marine Thunderstorm Wind (MG 37 kt)
	05/28/12 18:10 CST	0		Source: C-MAN Station
Measured wind gusts from strong thunderstorms gusted to 37 to 38 knots for 8 minutes.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	05/28/12 18:30 CST	0		Marine Thunderstorm Wind (MG 37 kt)
	05/28/12 18:30 CST	0		Source: C-MAN Station
A cold front passing through southeast Wisconsin and the near shore waters of Lake Michigan caused scattered strong to severe thunderstorms during the evening of Monday, May 28th.				
WISCONSIN, Southeast				
SAUK COUNTY --- WEST BARABOO [43.47, -89.78]				
	05/01/12 09:00 CST	0		Hail (1.00 in)
	05/01/12 09:00 CST	0		Source: Public
WAUKESHA COUNTY --- 2.0 SW OCONOMOWOC [43.10, -88.51]				
	05/01/12 13:00 CST	0		Hail (0.75 in)
	05/01/12 13:00 CST	0		Source: NWS Employee
WAUKESHA COUNTY --- 6.0 NE OCONOMOWOC [43.18, -88.40]				
	05/01/12 13:00 CST	0		Hail (1.50 in)
	05/01/12 13:00 CST	0		Source: Law Enforcement
WAUKESHA COUNTY --- 2.0 SW OCONOMOWOC [43.10, -88.51]				
	05/01/12 13:14 CST	0		Hail (1.00 in)
	05/01/12 13:14 CST	0		Source: NWS Employee
WASHINGTON COUNTY --- 2.0 E HOLY HILL [43.24, -88.29]				

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	05/01/12 13:15 CST		0	Hail (0.75 in)
	05/01/12 13:15 CST		0	Source: Trained Spotter
WASHINGTON COUNTY --- GERMANTOWN [43.23, -88.10]				
	05/01/12 13:15 CST		3K	Thunderstorm Wind (MG 61 kt)
	05/01/12 13:16 CST		0	Source: Trained Spotter
WASHINGTON COUNTY --- GERMANTOWN [43.23, -88.10]				
	05/01/12 13:23 CST		0	Hail (1.75 in)
	05/01/12 13:23 CST		0	Source: Trained Spotter
MILWAUKEE COUNTY --- RIVER HILLS [43.17, -87.93]				
	05/01/12 13:28 CST		2K	Thunderstorm Wind (MG 57 kt)
	05/01/12 13:28 CST		0	Source: Broadcast Media
DODGE COUNTY --- JUNEAU [43.40, -88.70]				
	05/01/12 15:04 CST		0	Hail (1.25 in)
	05/01/12 15:04 CST		0	Source: Trained Spotter
JEFFERSON COUNTY --- 1.0 NE FT ATKINSON [42.94, -88.84]				
	05/01/12 15:27 CST		0	Hail (1.75 in)
	05/01/12 15:27 CST		0	Source: Public
JEFFERSON COUNTY --- WATERTOWN [43.20, -88.72]				
	05/03/12 12:15 CST		0	Hail (1.25 in)
	05/03/12 12:25 CST		0	Source: Trained Spotter
JEFFERSON COUNTY --- 3.7 SE LAKE MILLS [43.04, -88.85]				
	05/03/12 12:40 CST		0	Hail (1.25 in)
	05/03/12 12:40 CST		0	Source: Trained Spotter
JEFFERSON COUNTY --- LAKE MILLS [43.08, -88.90]				
	05/03/12 12:41 CST		0	Hail (1.00 in)
	05/03/12 12:41 CST		0	Source: Fire Department/Rescue
JEFFERSON COUNTY --- JOHNSON CREEK [43.08, -88.77]				
	05/03/12 12:48 CST		0	Hail (1.00 in)
	05/03/12 12:48 CST		0	Source: NWS Employee
JEFFERSON COUNTY --- 5.0 E JOHNSON CREEK [43.08, -88.67]				
	05/03/12 12:55 CST		0	Hail (0.88 in)
	05/03/12 12:55 CST		0	Source: Public
JEFFERSON COUNTY --- 5.0 N SULLIVAN [43.09, -88.58]				
	05/03/12 13:02 CST		0	Hail (1.00 in)
	05/03/12 13:02 CST		0	Source: Public
DODGE COUNTY --- LEBANON [43.25, -88.63]				
	05/03/12 13:18 CST		0	Hail (1.00 in)
	05/03/12 13:18 CST		0	Source: Broadcast Media
JEFFERSON COUNTY --- 1.0 SE LAKE MILLS [43.07, -88.89]				
	05/03/12 13:23 CST		0	Hail (1.25 in)
	05/03/12 13:23 CST		0	Source: Trained Spotter

Clusters of severe thunderstorms...producing large hail up to 1.75 inches in diameter and wind gusts up to 70 mph (61 knots) moved across much of Southeast Wisconsin and a portion of South-Central Wisconsin during the afternoon hours of May 3rd. The thunderstorms developed in the warm sector ahead of low pressure over southeast Minnesota and behind a warm front that extended

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from the low across central Wisconsin. The unstable atmosphere, with mixed layer CAPE of 1500 to 2000 J/kg, and 0-6 km bulk shear around 40 knots was supportive of supercell thunderstorms. Wet conditions due to heavy rain associated with the thunderstorms led to a multi-vehicle accident on Interstate 94 near Lake Mills in Jefferson County, injuring (indirectly-related) two of the drivers.				
COLUMBIA COUNTY --- PARDEEVILLE [43.53, -89.28]				
	05/06/12 07:38 CST		0	Hail (0.75 in)
	05/06/12 07:38 CST		0	Source: Trained Spotter
COLUMBIA COUNTY --- 1.0 N PARDEEVILLE [43.54, -89.28]				
	05/06/12 07:48 CST		0	Hail (1.00 in)
	05/06/12 07:48 CST		0	Source: Trained Spotter
COLUMBIA COUNTY --- 2.0 E PARDEEVILLE [43.53, -89.24]				
	05/06/12 08:04 CST		1K	Thunderstorm Wind (EG 52 kt)
	05/06/12 08:04 CST		0	Source: Trained Spotter
A trained spotter reported a 10-inch diameter tree was downed by severe thunderstorm wind gusts.				
ROCK COUNTY --- EDGERTON [42.83, -89.07]				
	05/06/12 08:45 CST		0	Hail (1.00 in)
	05/06/12 08:45 CST		0	Source: Trained Spotter
ROCK COUNTY --- 0.4 SW DOWNTOWN JANESVILLE [42.68, -89.03]				
	05/06/12 08:57 CST		0	Hail (1.00 in)
	05/06/12 08:57 CST		0	Source: Trained Spotter
Heavy rainfall accompanying the severe thunderstorm produced minor urban street flooding.				
WAUKESHA COUNTY --- 2.0 N MUKWONAGO [42.90, -88.33]				
	05/06/12 11:16 CST		2K	Thunderstorm Wind (EG 56 kt)
	05/06/12 11:16 CST		0	Source: Trained Spotter
A trained spotter reported an estimated thunderstorm wind gust of 65 mph (56 knots) two miles north of Mukwonago.				
Severe thunderstorms, part of a mesoscale convective system (MCS) that developed over Minnesota the night before on the nose of a low-level jet of 35 knots, brought hail up to 1 inch in diameter and damaging wind gusts estimated at up to 65 mph (57 knots) as they pushed into South Central Wisconsin during the morning hours of May 6th. Trees and power lines were brought down by the severe thunderstorms winds. In addition, there were several reports of minor street flooding with the heavy rains that accompanied the severe thunderstorm complex, as well as two reports of minor fires caused by lightning strikes.				
WALWORTH COUNTY --- PELL LAKE [42.53, -88.37], LYONS [42.65, -88.35]				
	05/20/12 15:33 CST		10K	Thunderstorm Wind (EG 56 kt)
	05/20/12 15:40 CST		0	Source: Emergency Manager
The Walworth County Emergency Manager reported numerous trees and power lines downed by thunderstorm wind gusts estimated at 65 mph (56 knots) in a swath from Bloomington Township, near Pell Lake, to Lyons.				
Scattered thunderstorms developed ahead of a cold front, trailing from low pressure that moved from west central Wisconsin into western Ontario during the day on May 20th. One cluster of thunderstorms pulsed up to severe levels, producing damaging wind gusts over Walworth County that downed power lines and trees. Surface temperatures in the 80s and dew points around 60 degrees produced mixed-layer CAPE values around 1500 J/kg. Forcing with surface convergence along the front was aided by lift attributed to differential positive vorticity advection as an upper level shortwave lifted across western Wisconsin.				
MARQUETTE COUNTY --- 6.0 N OXFORD [43.87, -89.57]				
	05/26/12 20:38 CST		0	Hail (0.88 in)
	05/26/12 20:38 CST		0	Source: Trained Spotter
A thunderstorm complex (MCS), that formed in northern Iowa along the the leading edge of stronger low-level flow over a nearly-stationary mid-level baroclinic zone, produced nickel-sized hail (0.88 inch in diameter) in Marquette County as it crossed northern sections of South-Central and Southeast Wisconsin during the late evening hours of May 26th.				
SAUK COUNTY --- REEDSBURG [43.53, -90.00]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/28/12 14:44 CST		0	Hail (1.25 in)
	05/28/12 14:45 CST		0	Source: Trained Spotter
COLUMBIA COUNTY --- WISCONSIN DELLS [43.63, -89.77]				
	05/28/12 15:00 CST		5K	Hail (1.25 in)
	05/28/12 15:10 CST		0	Source: Trained Spotter
A ten-minute shower of large hail from a severe thunderstorm broke windows, with the damage totaling \$5,000.				
COLUMBIA COUNTY --- WISCONSIN DELLS [43.63, -89.77]				
	05/28/12 15:04 CST		30K	Thunderstorm Wind (EG 65 kt)
	05/28/12 15:10 CST		0	Source: Law Enforcement
Law enforcement officials reported many trees and power lines downed by powerful thunderstorm wind gusts, estimated up to 75 mph (65 knots) in the Wisconsin Dells. Four cars were also damaged, with overall property damages estimated to be \$30,000 dollars.				
MARQUETTE COUNTY --- BRIGGSVILLE [43.65, -89.58]				
	05/28/12 15:15 CST		20K	Thunderstorm Wind (EG 74 kt)
	05/28/12 15:17 CST		0	Source: Fire Department/Rescue
Fire department officials reported many trees and power lines downed by powerful thunderstorm wind gusts, estimated up to 85 mph (74 knots) in Briggsville. Tree debris damaged several cars, with roof damage to several homes.				
MARQUETTE COUNTY --- BRIGGSVILLE [43.65, -89.58]				
	05/28/12 15:20 CST		0	Hail (1.75 in)
	05/28/12 15:20 CST		0	Source: Amateur Radio
MARQUETTE COUNTY --- 2.0 S MONTELLO [43.77, -89.32]				
	05/28/12 15:36 CST		0	Hail (1.75 in)
	05/28/12 15:36 CST		0	Source: Trained Spotter
MARQUETTE COUNTY --- MONTELLO [43.80, -89.32]				
	05/28/12 15:36 CST		20K	Thunderstorm Wind (EG 65 kt)
	05/28/12 15:36 CST		0	Source: Trained Spotter
A trained spotter reported many trees and power lines downed by powerful thunderstorm wind gusts, estimated up to 75 mph (65 knots) in Montello. Metal shingles were torn off of a barn roof.				
GREEN LAKE COUNTY --- MARQUETTE [43.75, -89.14]				
	05/28/12 15:50 CST		0	Hail (1.00 in)
	05/28/12 15:50 CST		0	Source: Trained Spotter
DANE COUNTY --- 3.0 N MIDDLETON [43.14, -89.50]				
	05/28/12 16:09 CST		0	Hail (1.00 in)
	05/28/12 16:09 CST		0	Source: Trained Spotter
GREEN COUNTY --- NEW GLARUS [42.82, -89.63]				
	05/28/12 16:10 CST		30K	Thunderstorm Wind (EG 74 kt)
	05/28/12 16:10 CST		0	Source: Trained Spotter
A trained spotter reported trees and power lines downed by powerful thunderstorm wind gusts estimated at 80 mph (74 knots) in the town of New Glarus. One car was totally damaged when struck by a falling tree, with roof shingles blown off several homes.				
DANE COUNTY --- MSN MOREY FLD ARPT [43.12, -89.53]				
	05/28/12 16:15 CST		2K	Thunderstorm Wind (MG 50 kt)
	05/28/12 16:15 CST		0	Source: AWOS
GREEN COUNTY --- 2.0 N DAYTON [42.85, -89.50]				
	05/28/12 16:15 CST		10K	Thunderstorm Wind (EG 70 kt)
	05/28/12 16:20 CST		0	Source: Emergency Manager

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The Green County Emergency Manager reported shingles were blown off several homes by severe thunderstorm winds 2 miles north of Dayton.				
GREEN COUNTY --- 3.0 N DAYTON [42.86, -89.50], DAYTON [42.82, -89.50]				
	05/28/12 16:15 CST		30K	Thunderstorm Wind (EG 74 kt)
	05/28/12 16:20 CST		0	Source: Trained Spotter

A trained spotter reported trees and power lines downed by powerful thunderstorm wind gusts estimated at 80 mph (74 knots) in a swath from from 2 miles north of Dayton to Dayton. Roof shingles were blown off several homes.

DANE COUNTY --- 2.0 E OREGON [42.93, -89.34]				
	05/28/12 16:27 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/28/12 16:27 CST		0	Source: Public

The public reported trees were knocked down by severe thunderstorm winds 2 miles east of Oregon.

ROCK COUNTY --- COOKSVILLE [42.83, -89.23]				
	05/28/12 16:35 CST		5K	Thunderstorm Wind (EG 65 kt)
	05/28/12 16:35 CST		0	Source: Emergency Manager

The Rock County Emergency Manager reported trees were downed by severe thunderstorm winds in the village of Cooksville.

DANE COUNTY --- 3.0 NNE STOUGHTON [42.96, -89.20]				
	05/28/12 16:38 CST		0	Hail (0.75 in)
	05/28/12 16:38 CST		0	Source: Public

ROCK COUNTY --- EVANSVILLE [42.78, -89.30]				
	05/28/12 16:44 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/28/12 16:44 CST		0	Source: Trained Spotter

A trained spotter reported trees were downed by severe thunderstorm winds in the town of Evansville.

GREEN LAKE COUNTY --- MARQUETTE [43.75, -89.14]				
	05/28/12 16:50 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/28/12 16:50 CST		0	Source: Trained Spotter

A trained spotter reported trees downed by powerful thunderstorm wind gusts estimated at 65 mph (56 knots) in the village of Marquette.

ROCK COUNTY --- EVANSVILLE [42.78, -89.30]				
	05/28/12 16:50 CST		0	Hail (0.75 in)
	05/28/12 16:50 CST		0	Source: Public

DANE COUNTY --- 0.5 N STOUGHTON [42.93, -89.22]				
	05/28/12 16:54 CST		0	Hail (1.00 in)
	05/28/12 16:54 CST		0	Source: Public

GREEN COUNTY --- 4.0 SW BRODHEAD [42.58, -89.43]				
	05/28/12 17:08 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	05/28/12 17:08 CST		0	Source: Emergency Manager

The Green County Emergency Manager reported \$100,000 of damage from severe thunderstorm winds 4 miles southwest of Brodhead. The damage included 2 barns/sheds with one losing it's roof to the powerful winds. The severe winds peeled siding off of one home, and broke windows and pushed in the door on another home.

WAUKESHA COUNTY --- 2.0 N STONEBANK [43.18, -88.42]				
	05/28/12 17:35 CST		0	Hail (0.88 in)
	05/28/12 17:35 CST		0	Source: Public

WAUKESHA COUNTY --- 2.0 N STONEBANK [43.18, -88.42]				
	05/28/12 17:35 CST		5K	Thunderstorm Wind (EG 61 kt)
	05/28/12 17:35 CST		0	Source: Public

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Large pine trees were reported to be blown down by powerful thunderstorm winds by the public in Stone Bank.				
WASHINGTON COUNTY --- 3.0 W COLGATE [43.20, -88.28]				
	05/28/12 17:37 CST		10K	Thunderstorm Wind (EG 61 kt)
	05/28/12 17:37 CST		0	Source: Public
Winds from a gustnado damaged the soffit on a home, felled trees and damaged fencing as reported by the public 3 miles west of Colgate.				
WASHINGTON COUNTY --- GERMANTOWN [43.23, -88.10]				
	05/28/12 17:45 CST		10K	Thunderstorm Wind (EG 56 kt)
	05/28/12 17:45 CST		0	Source: Public
Tress and power lines were reported to be blown down by powerful thunderstorm winds by the public in Germantown.				
JEFFERSON COUNTY --- 1.7 S PALMYRA [42.86, -88.60]				
	05/28/12 17:50 CST		3K	Thunderstorm Wind (EG 52 kt)
	05/28/12 17:50 CST		0	Source: NWS Employee
Large tree branches, up to 12 inches in diameter, were broken off and blown 50 feet by powerful thunderstorm wind gusts about 1.5 miles southwest of Palmyra on Blue Spring Lake.				
OZAUKEE COUNTY --- CEDARBURG [43.28, -87.98]				
	05/28/12 17:54 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/28/12 17:54 CST		0	Source: Public
Tress and power lines were reported to be blown down by powerful thunderstorm winds by the public in Cedarburg.				
OZAUKEE COUNTY --- CEDARBURG [43.28, -87.98]				
	05/28/12 17:59 CST		0	Hail (1.25 in)
	05/28/12 17:59 CST		0	Source: Public
A report from the public via Twitter stated 1.25 inch diameter hail fell in Cedarburg.				
WAUKESHA COUNTY --- 2.0 SW DOWNTOWN WAUKESHA [43.00, -88.25]				
	05/28/12 18:13 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/28/12 18:13 CST		0	Source: Public
The public reported trees downed by powerful thunderstorm winds 2 miles southwest of the city of Waukesha.				
WAUKESHA COUNTY --- 2.0 SE NEW BERLIN [42.96, -88.09]				
	05/28/12 18:22 CST		20K	Thunderstorm Wind (EG 52 kt)
	05/28/12 18:22 CST		0	Source: Public
The public reported trees downed by powerful thunderstorm winds 2 miles southeast of the city of New Berlin. A tree measuring 15 inches in diameter fell on a house.				
ROCK COUNTY --- EDGERTON [42.83, -89.07]				
	05/28/12 18:25 CST		75K	Lightning
	05/28/12 18:25 CST		0	Source: Fire Department/Rescue
Fire officials say lightning ignited a fire that damaged a 21-unit senior living facility in Edgerton, displacing 30 residents.				
OZAUKEE COUNTY --- CEDARBURG [43.28, -87.98]				
	05/28/12 18:50 CST		20K	Lightning
	05/28/12 18:50 CST		0	Source: Law Enforcement

The Ozaukee County Sheriff Department reported a fire ignited by a lightning strike in the 3200 block of Twin Creeks Road in the town of Cedarburg.

The Memorial Day holiday became turbulent during the late afternoon and evening hours as a line of severe thunderstorms ahead of a cold front crossed southern Wisconsin, producing damaging winds gusts and large hail up to 1.25 inches in diameter. An unstable air mass was in place, with high temperatures in the upper 80s to around 90, and dew points in the lower 60s, that produced mixed-layer CAPE values of 1000-1800 J/kg, with forcing along the front enhanced by weak upper level divergence and weak differential vorticity advection. While directional shear was minimal, with above-surface winds unidirectional from the west, there was sufficient speed

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shear to support organized updrafts, and for the individual cells to merge into bowing line segments. Numerous reports of downed trees and power lines were received, as well as some minor structural damage. There were also many large hail reports, mainly along and south of a line from northern Sauk County, near Reedsburg and the Wisconsin Dells, to northern Ozaukee County near Port Washington. Fire officials in Edgerton, in northeast Rock County, and in the city of Jackson in Washington County reported structural fires caused by lightning strikes.